

Title (en)

An image display/input apparatus

Title (de)

Bildanzeige-/eingabegerät

Title (fr)

Appareil d'affichage / d'entrée d'images

Publication

EP 0707407 B1 19990915 (EN)

Application

EP 95304080 A 19950613

Priority

- JP 24527794 A 19941011
- JP 29280994 A 19941128

Abstract (en)

[origin: EP0707407A1] A backlight (122) emits diffused light beams. An emission direction characteristic-forming plate (123) allows light beams which have been incident thereon at generally right angles therewith to pass therethrough and intercepts light beams which have been incident thereon obliquely. An image display/input panel (121) has light receiving elements each incorporated in a corresponding pixel having a liquid crystal cell. In an image input operation, pixels are sequentially turned on and off so as to scan an original document (125) by parallel light emitted vertically from a turned-on pixel. Light reflected by the original document (125) is received by the light receiving element incorporated in the turned-on pixel and converted into an electric signal. Light emitted from the turned-on pixel of the image display/input panel (121) and reflected by the original document (125) is received by only the turned-on pixel. In this manner, a high resolution can be obtained in the image input operation. <IMAGE>

IPC 1-7

H04N 1/028; **H04N 1/031**

IPC 8 full level

H04N 1/028 (2006.01); **H04N 1/031** (2006.01)

CPC (source: EP KR US)

H04N 1/028 (2013.01 - EP US); **H04N 1/02805** (2013.01 - EP KR US); **H04N 1/031** (2013.01 - EP KR US)

Cited by

EP1113309A3; EP2256525A1; TWI594147B

Designated contracting state (EPC)

DE FR GB

DOCDB simple family (publication)

EP 0707407 A1 19960417; **EP 0707407 B1 19990915**; DE 69512172 D1 19991021; DE 69512172 T2 20000203; KR 0141523 B1 19980715; KR 960015371 A 19960522; US 5675357 A 19971007

DOCDB simple family (application)

EP 95304080 A 19950613; DE 69512172 T 19950613; KR 19950034665 A 19951010; US 46721895 A 19950606